

AMENDMENTS TO THE CLAIMS

1. (CURRENTLY AMENDED) A washing and drying machine,
comprising:

an outer tub supported in a case in which washing water is capable of
being stored;

a drain hose connected from a lower side of the outer tub to the outside
of the case, for draining washing water;

an inner tub capable of receiving clothes to be washed and dried and
being installed rotatably in the outer tub;

a driving motor installed at the lower side of the outer tub, for rotating
the inner tub;

an air circulating duct connected from a first side of the outer tub to a
second side of the outer tub, wherein air for drying the clothes in the inner tub
is circulated by said air circulating duct;

a blower installed in the air circulating duct for circulating the air;

heater installed in the air circulating duct for heating the circulating air;
and

a dehumidification device for dehumidifying air circulated into the air
circulating duct using a refrigerating cycle, wherein said dehumidification

device includes a compressor, a condenser, a capillary tube and an evaporator which form a refrigerating cycle circuit; and

a water cooling tank for storing washing water discharged from the outer tub, wherein the evaporator is installed in the air circulating duct and the condenser is installed at a center portion of the drain hose to cool water by a water cooling method in the water cooling tank.

2. (PREVIOUSLY PRESENTED) The machine according to claim 1, further comprising:

an opened upper surface for each of the case, outer tub and the inner tub, respectively; and

means for closing an inner portion of the outer tub installed at the opened upper portion of the outer tub, wherein the inner tub is rotatably centered around a rotation shaft positioned with respect to a vertical direction of the case.

3. (PREVIOUSLY PRESENTED) The machine according to claim 1, wherein the air duct diverges from the drain hose, and further comprising

valve means for switching an opening and closing direction, and a flowing direction, wherein said valve means is installed at a position where the drain hose and the air duct diverge.

4. (CURRENTLY AMENDED) The machine according to claim 1, wherein the dehumidification device is positioned at a rear side of the heater in the air flowing direction.

5. (PREVIOUSLY PRESENTED) The machine according to claim 1, wherein the blower, the dehumidification device and the heater are consecutively installed in the air flowing direction in the air circulating duct.

6. (PREVIOUSLY PRESENTED) The machine according to claim 1, wherein a water pipe is connected to the lower portion of the air circulating duct to discharge dehumidified water.

7. (CANCELLED).

8. (CURRENTLY AMENDED) The machine according to claim 7 1, wherein a part of a refrigerant line for connecting the evaporator and condenser is cooled passing through the drain hose.

9. (CURRENTLY AMENDED) The machine according to claim 7 1, further comprising:

a valve installed in the drain hose connected to the lower side of the cooling water tank, and

a water level control means installed in the water cooling tank for maintaining a certain water level.

10. (PREVIOUSLY PRESENTED) The machine according to claim 9, wherein said water level control means further includes an overflow tube connected to an upper portion of the cooling water tank.

11. (WITHDRAWN) A clothes dryer, comprising:
a drum positioned in a case, in which clothes are dried;
an upper cover and lower cover which are fixed in the case and combined to both sides of the drum, for supporting the drum to rotate;

a driving motor installed at the lower cover, for rotating the drum;

an air circulative duct connected from the lower cover to the upper cove, in which air for drying the clothes inputted into the drum is circulated;

a blower installed in the air circulative duct, for compulsorily circulating air;

a heating means installed in the air circulative duct, for heating the circulating air; and

a dehumidification means for humidifying air circulated into the air circulative duct.

12. (WITHDRAWN) The dryer of claim 11, wherein the drum is positioned rotatably centering around a rotation shaft positioned in the vertical direction of the case and the case, outer tub and inner tub respectively have an opened upper surface.

13. (WITHDRAWN) The dryer of claim 12, wherein a closing means for closing the inner portion is positioned at the opened portion of the upper cover.

14. (WITHDRAWN) The dryer of claim 11, wherein the dehumidification means is positioned at the front side of the heater in the air flowing direction.

15. (WITHDRAWN) The dryer of claim 11, wherein the blower, dehumidification means and the heater are consecutively installed in the air flowing direction in the air circulative duct.

16. (WITHDRAWN) The dryer of claim 11, wherein a water pipe for discharging water dehumidified is connected to the lower end portion of the air circulative duct.

17. (WITHDRAWN) The dryer of claim 11, wherein the dehumidification means comprises a compressor, a condenser, a capillary tub and an evaporator which compose a refrigerating cycle circuit and the evaporator is installed in the air circulating duct.

18. (WITHDRAWN) The dryer of claim 17, further comprising:
a cooling water tank capable of storing a certain amount of cooling water
to cool the condenser by the water cooling method.

19. (WITHDRAWN) The dryer of claim 18, wherein a drain pipe is
connected to the lower end portion of the air circulative duct to discharge
dehumidified water to the cooling water tank.

20. (WITHDRAWN) The dryer of claim 18, wherein a part of the
refrigerant line for connecting the evaporator and condenser is cooled passing
through the cooling water tank.